

Nissen 11/21/03

Bill (Alstom)

Turb being shipped / arrive 3/31  
ETA 2/16/03 (best 2/10/03)  
Unload 7-330 M-F

Unit 1 HP/IP Turbine  
Outage Coordination Meeting  
January 21, 22003

10:00- noon

Outage start date:

Unit 1 off line after peak Friday night 2-28-03  
Start night shift Friday night

Wally Falconer (for Barry)  
Chuck  
Alstom  
Dave  
mick (trying to get some people)

End date:

Work cards in Friday 3-28-03  
Full load availability Monday 3-31-03  
28 working days

MDIA

Jay - day shift  
John Toohay (ex-GE)

Personnel:

Maintenance

Mike Alley  
Craig Teeples  
Will Lovell  
Richard Houston  
Kelly Cloward  
Brad Thompson

Turbine overhaul manager  
Day shift supervisor  
Night shift supervisor  
Maintenance Engineer  
Planner-days  
Planner-nights

Technical Services

James Nelson  
Phong Do  
Dave Spence

Supervising Engineer  
QA/QC day shift  
QA/QC night shift

Continental- chuck

Shift schedule:

24 hour coverage, 12 hour shifts.  
6:30-7:00 each shift, coordination meeting  
7-day per week coverage

Work scope:

HP turbine upgrade

line bore HP/IP coupling in lathe  
install new coupling sleeves, use existing bolts

IP turbine overhaul

fit up spare 8<sup>th</sup> stage diaphragm  
rotor boresonic inspection  
line bore coupling in place  
install new hydraulic coupling bolts in "B" (IP/LPA) coupling  
low speed balance IP rotor

Main stop valve overhaul

install spare stop valve assemblies  
→ install start up screens for boiler tube work  
reinstall running screens

4th stage extr - 12"

Cooling steam 2"

collector rings - not grinding

SWU - outershell differential stops  
monitor forced cooling  
slu issues / shutdown

check  
Phong: speed pickup  
control rotor

check 4th stage

Shutdown - pull slu screens  
vibr balance shots

IP7011379

Work scope continued:

Control valve overhaul

Control pacs from #2 & #4 valves sent for rebuild

Rebuild the spring can on #2 control valve control pac

Install spare control valve assemblies

Inspect CRV screens *Failure last outage / Replace w/ Kits*

Overhaul Equalizer valve

Overhaul Ventilator valve

Vacuum/pressure test on main generator *leaks/testing*

electrical testing

generator repairs likely

Overhaul both main Boiler Feed Pumps *A / then B*

install spare volute assemblies

*Measuring IP for replacement  
(Ferrell arm)  
reverse engineering*

Schedule review

List of contractors

Alstom

MD & A

Continental Field Systems

Integra Technologies/BFW

Reinhart & Associates

Midwest Turbine Inspections

Laser Measurement Services

Prime Machine

- Mannings

Turbocare

Irwin Industries

HP upgrade

Technical Direction

Vacuum/pressure test

Diaphragm repairs

Onsite machining

"B" coupling line boring

IP rotor boresonics

NDE & sandblasting

Laser alignment TO/TO

Low speed balance IP rotor

- N-1 packing head machine work

Induction bolt heating

Hydraulic shell closing system

Retractable packing installation

4<sup>th</sup> stage extraction pipe work

*machining coupling face arm*

*spacer*

*hold down bolts (don't need case)  
B gland*

Safety orientation

Personnel list

Badging

*Nonateck (sold to MDA?)  
- Joe Orvora (2 guys coming)  
EHC cards / valve lineup  
need final drawings*

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